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**MIAMI-DADE COUNTY  
NOTICE TO PROFESSIONAL CONSULTANTS  
MIAMI-DADE WATER AND SEWER DEPARTMENT  
DESIGN-BUILD SERVICES TO FURNISH AND INSTALL A 48-INCH FORCE MAIN  
ALONG NORTH MIAMI AVENUE FROM N.W. 8 STREET ALONG TO 36 STREET  
AND ALONG N.E. 36 STREET FROM NORTH MIAMI AVENUE TO N.E. 2 AVENUE  
PROJECT NO. DB14-WASD-05**

The County Mayor, Miami-Dade County, pursuant to Chapter 287.055, Florida Statutes, Sections 2-8.1, 2-8.2.2.12 and 2-10.4 of the Miami-Dade County Code, Implementing Order 3-34, Administrative Order 3-39, and Ordinance 14-77 announces that the Miami-Dade Water and Sewer Department (WASD) will require one (1) qualified Design-Builder to provide design and construction services.

The Design-Builder shall provide, but not be limited to, surveying, geotechnical investigations, engineering, design, technical specifications, permitting, construction, testing and commissioning services, customer contact, negotiation and agreement execution; and all other required construction methods for this work, including those to minimize noise, dust, and other impacts to surrounding residential neighborhoods.

The Design-Builder shall be experienced in the installation of new 48-inch sewer mains to replace existing undersized and deteriorated sewer mains in order to improve system pressure for sewer service in the City of Miami. The design and construction services rendered by the Design-Builder shall result in a complete, functional, and operable piping project with a minimum 80 year design life.

The Design-Builder shall include, but not be limited to the following:

- Furnish and install approximately 12,700 linear feet of 48-inch Prestressed Concrete Cylinder Pipe (PCCP) and fittings (with 360-degrees T-lock lining and external protective coating) for sanitary sewer force main from North Miami Avenue and N.W. 8 Street to N.E. 36 Street and North Federal Highway (N.E. 2 Avenue).
- Furnish and install PCCP, fitting and specials;
- Construct three (3) micro-tunnels with 48-inch carrier mains inside 72-inch steel casings, under the railroad crossing along North Miami Avenue at N.W. 19 Street, under the railroad crossing at N.E. 36 Street and North Federal Highway and under congested utilities on North Miami Avenue between N.E. 8 Street and N.E. 9 Street;
- Furnish and install the 1-inch thick 72-inch casings; furnishing and installing casing spacers; constructing jacking and receiving pits for the micro-tunnel;
- Construct approximately ten (10) Access Manhole assemblies;
- Furnish and install ten (10) 48-inch Plug Valves; furnish and install one (1) 42-inch plug valve; furnish and install three (3) 36-inch Plug Valves;

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- Provide a tapping connection to an existing 48-inch Ductile Iron Pipe force main at the intersection of N.W. 8 Street and North Miami Avenue, including furnishing and installing a 48-inch x 36-inch tapping sleeve, a 36-inch FLG. X M.J. tapping valve, complete with riser pipe, valve box and cover, and polyethylene encasement;
- Cut-in connection to an existing 36-inch water main to include all costs in dewatering the existing sewage force main and hauling wastewater; making a tapping connection including furnishing and installing tapping saddles and tapping valves;
- Install a pipe in a hydrocarbon contaminated area; providing a Certified Hygienist certified by the American Board of Industrial Hygiene or a State of Florida Registered Engineer licensed in Environmental Discipline;
- Construct air release valve assemblies at all high points of the force main;
- Relocate of existing utilities in conflict with the route of the force main;
- Remove and legally disposing of unsuitable fill; furnishing and installing suitable backfill for pipe bedding and backfill, if needed;
- Clean and testing the main;
- Provide temporary pavement; making permanent paving repairs to include milling and resurfacing; providing traffic control; sidewalk and curb and gutter restoration; restoration of any facilities damaged during construction to a condition equal or better than before the start of construction;
- Provide all other appurtenant and miscellaneous items and work for a complete and fully functional installation.

Additionally, the Design-Builder shall design and construct all ancillary piping, tapping, temporary bypass, and tie-in connections to facilitate successful construction and commissioning the new 48-inch sewer mains without any interruption of service to the existing Miami-Dade Water and Sewer Department's customers.

If the Design-Builder does not achieve Substantial Completion by the established Substantial Completion Contract Date, Liquidated Damages (LDs) will be assessed in the amount of \$2,500.00 per calendar day, which will be paid to the County by the Design-Builder. If the Design-Builder does not achieve Final Completion by the established Final Completion Contract Date, LDs will be assessed in the amount of \$1,000.00 per calendar day, which will be paid to the County by the Design-Builder.

LDs will be cumulative if both the Substantial Completion Contract Date and the Final Completion Contract Date are exceeded. All assessments of LDs to the Design-Builder may be adjustments to payments due the Design-Builder.

The duration of the proposed design-build contract is 960 calendar days. The total maximum compensation for the design-build contract is \$21,192,854.

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Firms providing engineering services must be certified in the following technical categories and the respective percentages of the disciplines as indicated below:

<b>Technical Category No.</b>	<b>Description</b>	<b>Total Percentage</b>	<b>CBE Percentage %</b>
<b>3.02A PRIME</b>	Highway Systems – Tunnel Design	15%	0%
<b>6.01 PRIME</b>	Water and Sanitary Sewer Systems – Water Distribution and Sanitary Sewage Collection and Transmission Systems	45%	0%
<b>16.00 PRIME</b>	General Civil Engineering	15.0%	7.0%
<b>17.00 PRIME</b>	Engineering Construction Management	5.0%	5.0%
9.01	Soils, Foundations and Materials Testing- Drilling, Subsurface Investigations and Seismographic Services	1%	0%
9.02	Soils, Foundations and Materials Testing – Geotechnical and Materials Engineering Services	2.0%	0%
9.03	Soils, Foundations and Materials Testing – Concrete and Asphalt Testing Services	.05%	0%
9.04	Soils, Foundations and Materials Testing – Non-Destructive Testing and Inspections	.05%	0%
9.06	Soils, Foundations and Materials Testing – Materials Testing/Consulting/Training Industrial Hygiene	.05%	0%
10.02	Geology Services	1.%	0%
10.05	Environmental Engineering – Contamination Assessment and Monitoring	0.5%	0.5%
10.06	Environmental Engineering – Remedial Action Plan Design	0.5%	0%
10.07	Environmental Engineering – Remedial Action Plan Implementation/Operation/Maintenance	0.5%	0%
11.00	General Structural Engineering	10.0%	5.0%
15.01	Surveying and Mapping – Land	2.0%	0%

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Technical Category No.	Description	Total Percentage	CBE Percentage %
	Surveying		
15.03	Surveying and Mapping – Underground Utility Location	1.0%	0%
	TOTAL	100%	17.5%

WASD is recommending a 17.5% CBE, SBE .25% (technical category 91842 “Consulting Services” Maintenance of Traffic) and 11.2% CSBE goal participation.

**Minimum Experience and Qualifications:**

**Qualifications and Experience for Lead Constructors and Lead Designers:**

Minimum Project Experience and Past Performance: Proposed Design-Builder shall demonstrate its project team experience by presenting the qualifications and capabilities of each Design-Builder Team member firm, for a minimum of 3 projects completed within the last 10 years from the date of this solicitation, including projects that may be at least 50% complete prior to the required submission date of this Request for Design-Build Services (RDBS) Step 1 solicitation, that demonstrate related minimum project experience as indicated below:

a) Lead Constructors:

- i. The construction firm performing the force main installation work must have a minimum 4 years total industry experience as of the date of this solicitation and must have constructed at least 3 force main projects of similar size and complexity in an urban environment. A minimum total of 10,000 total linear feet of installation and minimum 42-inch nominal diameter of such pressure pipeline installation is required in the last 10 years from the date of this solicitation.
- ii. The construction firm performing the micro-tunneling work must have constructed at least 3 micro-tunneling projects of similar size and complexity within the last 10 years from the date of this solicitation. A minimum sum total of 1,200 linear feet of installation and minimum 42-inch nominal diameter carrier main of such tunnel installation is required.
- iii. The Lead Constructor within the Design-Builder team shall qualify for Item i of the above requirements.

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b) Lead Designers:

- i. The Lead Design Firm performing the design of the force main installation must have minimum 5 years total industry experience within the last 10 years from the date of this solicitation and must have designed at least 3 pressure pipeline installation projects in an urban environment consisting of a minimum of 10,000 total linear feet of minimum 42-inch nominal diameter concrete cylinder pressure pipe (PCCP) within the last 10 years from the date of this solicitation.
- ii. The firm performing the design of the micro-tunnel must have designed at least 3 micro-tunneling projects within the last 10 years from the date of this solicitation consisting of a minimum sum total of 1,000-feet in length and 42-inch nominal diameter of the carrier pipe.
- iii. The design firm and/or Subconsultants performing design for the deep shafts shall have designed at least 1 deep shaft project to support a tunnel boring operation. The shaft shall have been at least at least 30-foot deep (below grade) within the last 10 years from the date of this solicitation.

c) Subconsultants:

- i. Subconsultants to the Design-Builder or Lead Designer providing services under A/E technical certification categories must provide at least 3 projects that were completed within the last 10 years from the date of this solicitation that involved the main project element for which the subconsultant is being proposed, unless the experience and qualifications of the Lead Designer listed above require otherwise.

d) Additional Preferred Project Experience and Past Performance: Design-Builder teams shall receive higher qualifications scores from the Competitive Selection Committee (CSC) if their submitted project experience and past performance can demonstrate the following:

- i. Listed projects are of a similar or greater size and level of complexity.
- ii. Any listed projects of the proposed Design-Builder entity were designed and constructed through design-build project delivery.
- iii. The Lead Constructor and Lead Designer have worked together on previous projects, especially on design-build projects.
- iv. Key Personnel, most significantly the proposed Project Manager, Design Manager and Construction Manager, have served on the Projects listed and their client reference can validate that performance.

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**Design-Build Team Key Personnel Experience and Qualifications:**

- a) Minimum industry and position experience of Design-Build team Key Personnel are as follows:
  - i. Minimum 10 years total industry experience of which 5 years in a similarly responsible position for each of the following Key Personnel:
    - Design-Build Project Manager
    - Lead Designer- Design Manager
    - Lead Constructor - Construction Manager
  - ii. Minimum 10 years total industry experience of which 5 years is in a similarly responsible position for each of the following key personnel:
    - Lead Civil Engineer
    - Lead Pipeline/Mechanical Engineer
    - Pipe Installation Superintendent
    - Permitting/Compliance Manager
    - Design-Builder Quality Assurance/Quality Control (QA/QC) Manager
    - Design-Builder Safety Manager
  - iii. Key Personnel must demonstrate experience with the type work to be performed.
  - iv. Proposers shall identify those State of Florida registered Professional Engineers who will sign and seal construction plans and specifications.
  - v. Key Personnel resumes shall indicate the individual's current firm association, their professional qualifications, a client reference with contact information, and their role and duration on each project for which they are being credited the related experience.
- b) Additional Preferred Experience and Past Performance:
  - i. Experience in significant role on a design-build project, especially in a similar role as proposed for this Project.
  - ii. Superior references with regard to meeting cost, schedule, and quality objectives on previous projects, and maintaining a positive client relationship.

**Design-Builder Safety Record – Past Performance**

Past performance as reflected by a 3 year average for the last 3 previous full years of the Experience Modification Rate (EMR) for the Design-Builder for the pipeline

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work and the micro-tunnel contractor is recommended to be below 1.10 for each firm.

Design-Builders shall provide EMR data for the previous 3 full calendar years (2011, 2012, and 2013) on a firm-wide basis shall be documented by a signed letter with contact information from the firm's insurance carrier, or the insurance carrier's agency representative. Higher qualifications score shall be provided by the CSC for a Design-Builder demonstrating an average EMR lower than other competing Design-Builder firms. Design-Builder shall also provide their Occupational Safety and Health Administration (OSHA) forms 300 and 300A for the last 3 full calendar years indicating OSHA submitted accident data for evaluation by the Competitive Selection Committee as to their frequency and severity.

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